

2013 CENTRAL COAST PACIFIC HALIBUT ALL- DEPTH SEASON STRUCTURE

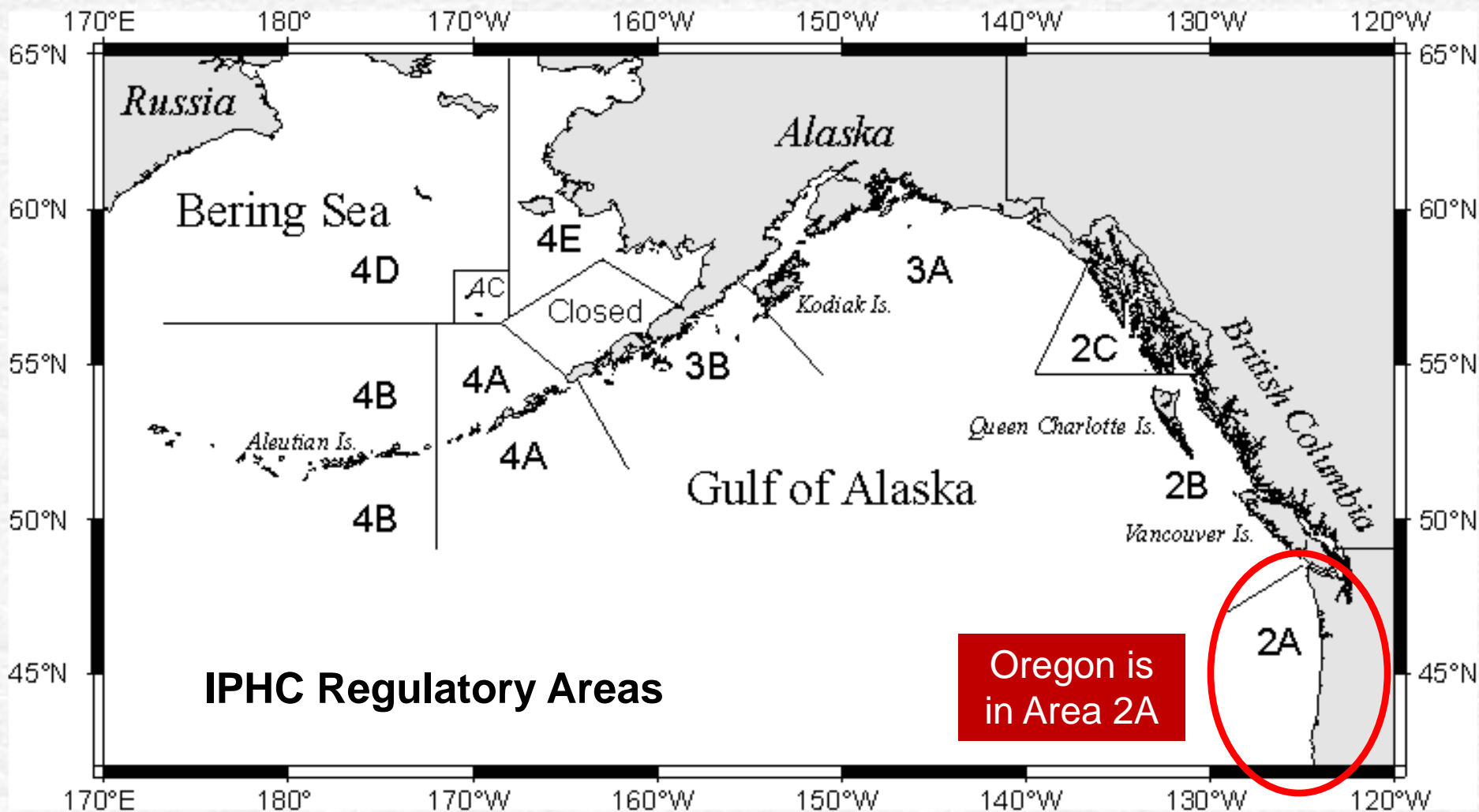
Oregon Department of Fish and Wildlife
Marine Resources Program
February 2013



OUTLINE

1. Results of IPHC annual meeting
2. Changes to the catch sharing plan for 2013
3. Central Oregon Coast spring (May-July) all-depth sport fishery fixed and back-up dates
4. Central Oregon Coast Summer all-depth sport fishery season dates

2013 IPHC Meeting Results



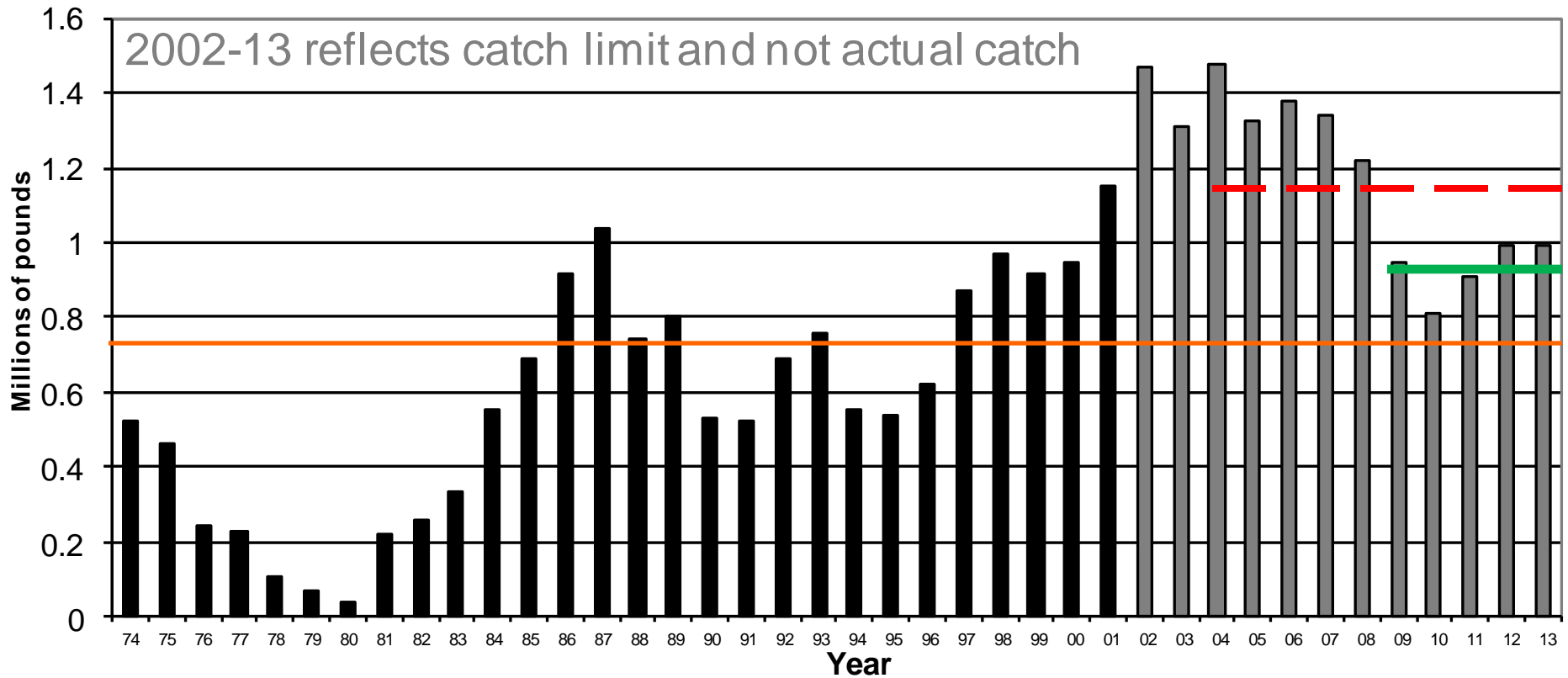
2013 IPHC Meeting Results

2013 Halibut Quota by Area (million pounds, net weight)

Area	2010 Quota	2011 Quota	2012 Quota	Staff *	Conference Board	Processor Advisory Group	Adopted by Commissioners	Percent Difference from 2012
2A	0.81	0.91	0.99	0.710	0.990	0.900	0.990	0.1%
2B	7.50	7.65	6.63	4.580	7.040	6.220	7.038	6.1%
2C	4.40	2.33	2.62	3.120	3.120	3.760	2.970	13.2%
3A	19.99	14.36	11.92	9.240	11.030	9.240	11.030	-7.5%
3B	9.90	7.51	5.07	2.730	4.290	2.730	4.290	-15.4%
4A	2.33	2.41	1.57	0.850	1.330	1.330	1.330	-15.1%
4B	2.16	2.18	1.87	0.620	1.450	1.450	1.450	-22.4%
4CDE	3.58	3.72	2.47	0.850	1.930	1.930	1.930	-21.7%
Total	50.67	41.07	33.14	22.700	31.180	27.560	31.028	-6.4%

2013 Area 2A Quota = 2012 Area 2A quota

Pacific halibut Catch in 2A



- 5-year average
- - - 10-year average
- Long term average

Changes to the CSP for 2013

- **Columbia River Subarea**
 - Removed regulatory closure of 3rd Sunday in July from spring season
 - Will close when 80% of subarea quota attained, if not prior to summer opening date, rolled into summer fishery
 - **Spring season open Fri-Sun**, instead of Thurs-Sat
 - Consistent with summer days

Changes to the CSP for 2013

- **Central Coast**

- If 2A TAC is less than 700,000 lbs., change allocation between season (TAC in 2013 = 990,000 lbs.)
 - If $\geq 700,000$ lbs., 63% spring, 25% summer, 12% nearshore
 - If $< 700,000$ lbs., 75% spring, 25% nearshore
- **Nearshore fishery** changed from 7-days per week to **3-days per week (Thurs-Sat)** to try to extend the season later into the summer
 - After August 15, may be able to open for additional days

Changes to the CSP for 2013

- **South of Humbug Mountain Subarea**
 - No changes for 2013
 - ODFW, CDFG, NMFS, and IPHC working through the Council on how to manage this fishery in the future, may need to be changes for 2014

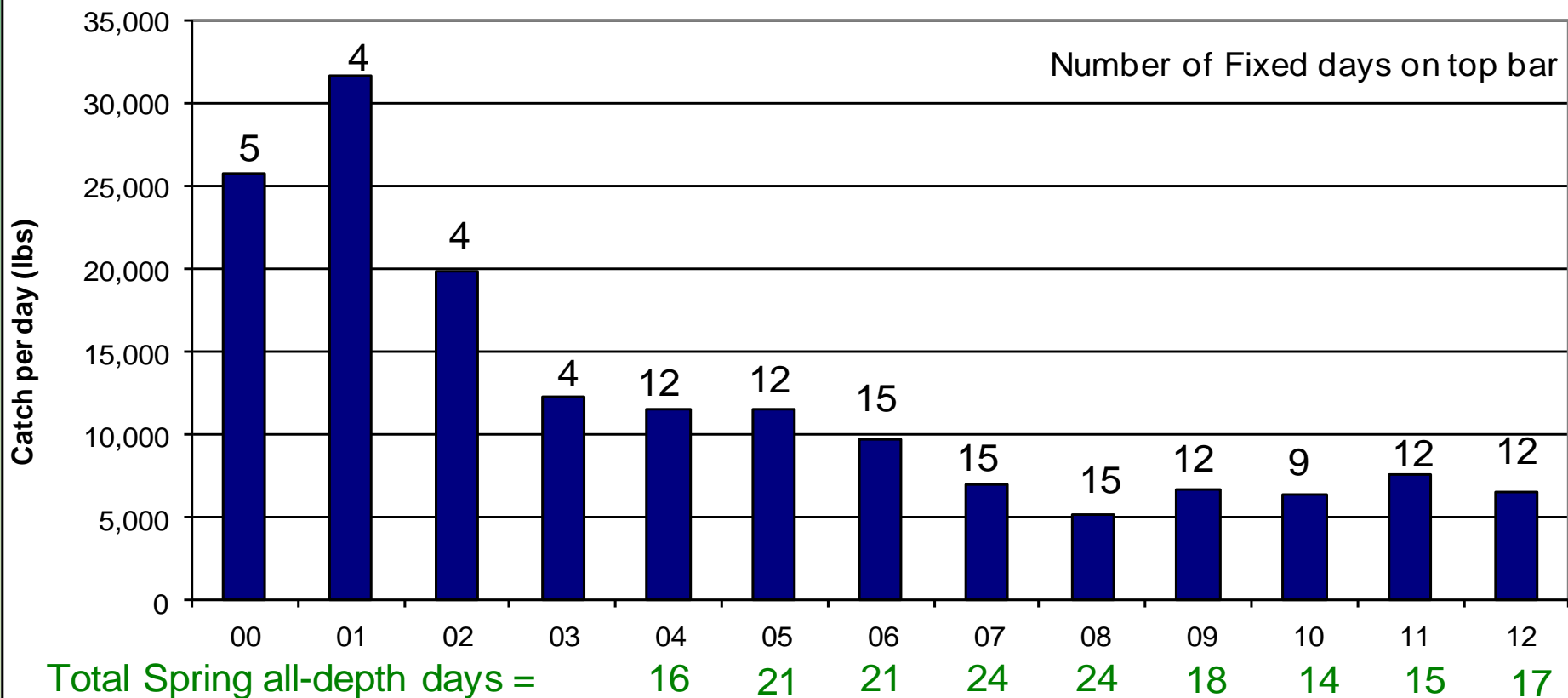
Central OR Spring (May-July) Sport All-Depth Fishery

“Fixed Day” period opens 2nd Thursday in May
(May 9, 2013)

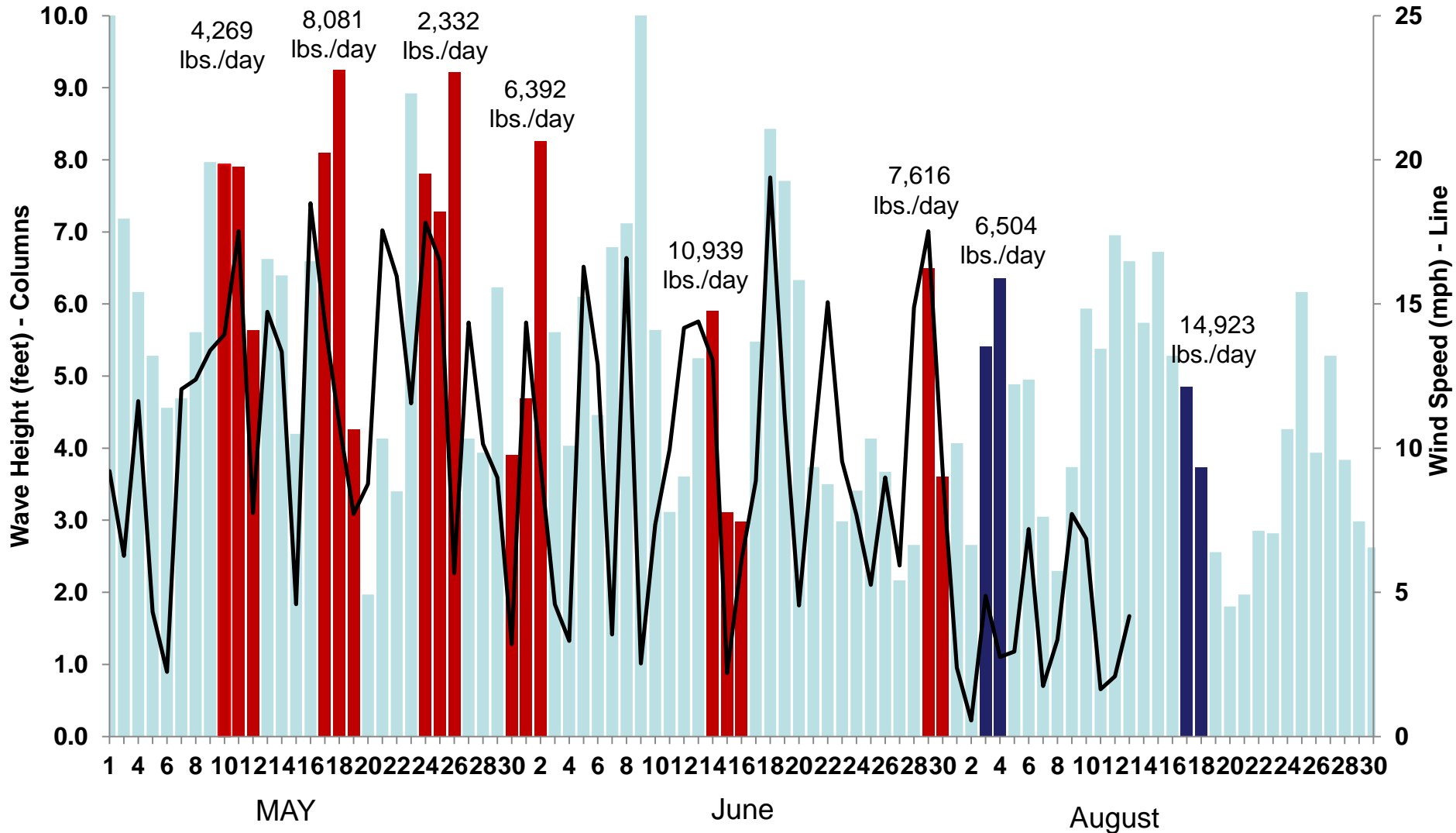
- Open Thursdays, Fridays and Saturdays
- After “Fixed Days” period, if poundage remains the fishery re-opens every other Thursday, Friday, and Saturday (Saturday priority if only 1 day; Friday-Saturday if only 2 days)
- Weeks can be skipped to avoid adverse tides

Central OR Spring (May-July) Sport All-Depth Fishery

Catch per day in the Spring Cape Falcon to Humbug Mt. All-Depth Pacific Halibut Sport Fishery



2012 Stonewall Bank Buoy Readings



Central OR Spring (May-July) Sport All-Depth Fishery

Week	<u>Pounds Per Day</u>					
	2007	2008	2009	2010	2011	2012
1	2,756	6,947	12,472	13,324	8,585	4,269
2	10,118	4,047	2,072	1,913	2,282	8,081
3	1,950	1,837	13,386	5,948	5,518	2,332
4	6,489	11,218	9,121	8,870	11,688	6,392
5	4,487	1,893	5,242		10,178	10,939
6	8,626	2,560	8,813			7,616
Average	5,589	4,986	6,800	6,440	7,650	6,545

Central OR Spring (May-July) Sport All-Depth Fishery

- 120,947 -lbs. catch limit
- Number of projected days = 2013 catch limit/catch per day

Year (s)	Catch per Day	Projected Days in 2013
2002	19,800	6
2003-05	11,500-12,300	10
2006	8,747	14
2007	5,589	22
2008	4,986	24
2009	6,800	18
2010	6,440	19
2011	7,650	16
2012	6,545	18

*Note: A catch per day of 28,157 pounds on 6 open days would harvest the **combined** Spring and Summer all-depth catch limit (or 18,771 on 9 days; or 14,079 on 12 days; or 11,263 on 15 days; or 9,386 on 18 days; or 8,045 on 21 days)*

Spring Halibut Period 2013 --possible open dates

MAY		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Wed	11:49 AM	-0.7	4:41 AM	7.4
2	Thu	12:51 PM	-0.2	5:53 AM	6.7
3	Fri	1:54 PM	0.3	8:34 PM	6.9
4	Sat	2:53 PM	0.7	9:24 PM	7.2
5	Sun	3:47 PM	1.1	10:07 PM	7.5
6	Mon	4:47 AM	0.4	10:46 PM	7.7
7	Tue	5:32 AM	-0.1	11:22 PM	7.9
8	Wed	6:13 AM	-0.5	11:56 PM	7.9
9	Thu	6:51 AM	-0.8	1:15 PM	6.3
10	Fri	7:28 AM	-0.9	1:56 PM	6.3
11	Sat	8:04 AM	-0.9	1:01 AM	7.8
12	Sun	8:40 AM	-0.8	1:35 AM	7.6
13	Mon	9:18 AM	-0.6	2:09 AM	7.3
14	Tue	9:58 AM	-0.3	2:46 AM	7.0
15	Wed	10:40 AM	0.0	3:27 AM	6.6
16	Thu	11:25 AM	0.3	4:15 AM	6.1
17	Fri	12:13 PM	0.7	7:09 PM	6.0
18	Sat	1:04 PM	1.0	7:53 PM	6.3
19	Sun	1:57 PM	1.3	8:35 PM	6.8
20	Mon	2:49 PM	1.5	9:15 PM	7.3
21	Tue	4:04 AM	0.7	9:55 PM	7.8
22	Wed	4:52 AM	-0.2	10:37 PM	8.3
23	Thu	5:38 AM	-1.0	11:20 PM	8.8
24	Fri	6:24 AM	-1.7	12:51 PM	6.6
25	Sat	7:11 AM	-2.2	12:05 AM	9.1
26	Sun	7:59 AM	-2.4	12:51 AM	9.2
27	Mon	8:47 AM	-2.3	1:40 AM	9.0
28	Tue	9:37 AM	-2.0	2:32 AM	8.6
29	Wed	10:29 AM	-1.4	3:27 AM	7.9
30	Thu	11:22 AM	-0.8	4:29 AM	7.1
31	Fri	12:17 PM	0.0	7:00 PM	7.2

JUNE		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
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2	Sun	2:34 AM	1.3	8:42 PM	7.5
3	Mon	3:37 AM	0.7	9:27 PM	7.7
4	Tue	4:30 AM	0.2	10:09 PM	7.8
5	Wed	5:16 AM	-0.3	10:48 PM	7.9
6	Thu	5:57 AM	-0.6	11:24 PM	7.9
7	Fri	6:35 AM	-0.8	1:08 PM	6.0
8	Sat	7:10 AM	-0.9	12:00 AM	7.9
9	Sun	7:45 AM	-0.9	12:34 AM	7.8
10	Mon	8:19 AM	-0.9	1:09 AM	7.6
11	Tue	8:54 AM	-0.7	1:45 AM	7.4
12	Wed	9:29 AM	-0.5	2:23 AM	7.1
13	Thu	10:05 AM	-0.2	3:03 AM	6.7
14	Fri	10:43 AM	0.2	5:32 PM	6.4
15	Sat	11:23 AM	0.7	6:12 PM	6.6
16	Sun	12:08 PM	1.2	6:55 PM	6.9
17	Mon	12:58 PM	1.7	7:39 PM	7.3
18	Tue	2:37 AM	1.2	8:26 PM	7.8
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23	Sun	6:56 AM	-2.3	1:28 PM	6.9
24	Mon	7:43 AM	-2.4	12:36 AM	9.4
25	Tue	8:30 AM	-2.2	1:27 AM	9.1
26	Wed	9:17 AM	-1.8	2:21 AM	8.6
27	Thu	10:03 AM	-1.1	3:16 AM	7.9
28	Fri	10:50 AM	-0.3	5:27 PM	7.6
29	Sat	11:39 AM	0.6	6:17 PM	7.6
30	Sun	12:31 PM	1.4	7:08 PM	7.7

JULY		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Mon	2:05 AM	1.2	7:59 PM	7.7
2	Tue	3:10 AM	0.8	8:48 PM	7.7
3	Wed	4:07 AM	0.4	9:35 PM	7.7
4	Thu	4:56 AM	0.0	10:19 PM	7.8
5	Fri	5:38 AM	-0.3	11:00 PM	7.8
6	Sat	6:15 AM	-0.5	11:38 PM	7.9
7	Sun	6:50 AM	-0.6	1:26 PM	6.1
8	Mon	7:24 AM	-0.7	12:15 AM	7.9
9	Tue	7:56 AM	-0.7	12:52 AM	7.8
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negative tides

possible commerical fishery open day

Central OR Spring (May-July) Sport All-Depth Fishery

- In 2012 :
 - 12 fixed days, no tides skipped
 - May 10-12, May 17-19, May 24-26, and May 31-June 2
 - 5 back-up days
 - June 14-16 and June 29-30
- For 2013 same quota, same number of fixed days
 - Skip any tides?

Spring Halibut Period 2013

Scenario 1: 12 fixed days

no tides skipped

Fixed days: 12

Possible back-up days: 12

1

2

3

4

5

6

7

8

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negative tides

possible commercial fishery open day

nearshore open

fixed dates

back-up dates

Spring Halibut Period 2013

Scenario 2: 12 fixed days

skip May 23-25 tides

Fixed days: 12

Possible back-up days: 9

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FIXED		8:40 AM	-0.8	1:35 AM	7.6
13	Mon	9:18 AM	-0.6	2:09 AM	7.3
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12	Wed	9:29 AM	-0.5	2:23 AM	7.1
13	Thu	10:05 AM	-0.2	3:03 AM	6.7
14	Fri	10:43 AM	0.2	5:32 PM	6.4
15	Sat	11:23 AM	0.7	6:12 PM	6.6
NEARSHORE		12:08 PM	1.2	6:55 PM	6.9
17	Mon	12:58 PM	1.7	7:39 PM	7.3
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26	Wed	9:17 AM	-1.8	2:21 AM	8.6
27	Thu	10:03 AM	-1.1	3:16 AM	7.9
28	Fri	10:50 AM	-0.3	5:27 PM	7.6
29	Sat	11:39 AM	0.6	6:17 PM	7.6
NEARSHORE		12:31 PM	1.4	7:08 PM	7.7

JULY		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Mon	2:05 AM	1.2	7:59 PM	7.7
2	Tue	3:10 AM	0.8	8:48 PM	7.7
3	Wed	4:07 AM	0.4	9:35 PM	7.7
4	Thu	4:56 AM	0.0	10:19 PM	7.8
5	Fri	5:38 AM	-0.3	11:00 PM	7.8
6	Sat	6:15 AM	-0.5	11:38 PM	7.9
Back-up		6:50 AM	-0.6	1:26 PM	6.1
8	Mon	7:24 AM	-0.7	12:15 AM	7.9
9	Tue	7:56 AM	-0.7	12:52 AM	7.8
10	Wed	8:28 AM	-0.6	1:28 AM	7.6
11	Thu	8:59 AM	-0.3	2:05 AM	7.3
12	Fri	9:32 AM	0.0	2:45 AM	7.0
13	Sat	10:05 AM	0.5	4:41 PM	7.1
NEARSHORE		10:42 AM	1.0	5:20 PM	7.3
15	Mon	11:24 AM	1.6	6:03 PM	7.5
16	Tue	12:56 AM	1.6	6:51 PM	7.8
17	Wed	2:04 AM	1.0	7:46 PM	8.1
18	Thu	3:09 AM	0.3	8:44 PM	8.5
19	Fri	4:08 AM	-0.5	9:42 PM	8.8
20	Sat	5:02 AM	-1.1	10:39 PM	9.2
Back-up		5:52 AM	-1.6	11:33 PM	9.3
22	Mon	6:39 AM	-1.9	1:07 PM	7.2
23	Tue	7:24 AM	-1.9	12:26 AM	9.3
24	Wed	8:08 AM	-1.6	1:18 AM	9.0
25	Thu	8:51 AM	-1.1	2:10 AM	8.5
26	Fri	9:34 AM	-0.3	3:59 PM	8.0
27	Sat	10:17 AM	0.5	3:59 AM	7.0
NEARSHORE		11:01 AM	1.4	5:29 PM	7.8
29	Mon	12:17 AM	1.3	6:19 PM	7.6
30	Tue	1:26 AM	1.2	5:29 PM	7.5
31	Wed	2:34 AM	1.0	8:08 PM	7.4

negative tides

possible commerical fishery open day

nearshore open

fixed dates

back-up dates

Spring Halibut Period 2013

Scenario 3: 12 fixed days

Fixed days: 12

Possible back-up days: 9

skip May 23-25 and June 20-22 tides

1

2

3

4

5

6

7

MAY		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Wed	11:49 AM	-0.7	4:41 AM	7.4
2	Thu	12:51 PM	-0.2	5:53 AM	6.7
3	Fri	1:54 PM	0.3	8:34 PM	6.9
4	Sat	2:53 PM	0.7	9:24 PM	7.2
NEARSHORE		3:47 PM	1.1	10:07 PM	7.5
6	Mon	4:47 AM	0.4	10:46 PM	7.7
7	Tue	5:32 AM	-0.1	11:22 PM	7.9
8	Wed	6:13 AM	-0.5	11:56 PM	7.9
9	Thu	6:51 AM	-0.8	1:15 PM	6.3
10	Fri	7:28 AM	-0.9	1:56 PM	6.3
11	Sat	8:04 AM	-0.9	1:01 AM	7.8
FIXED		8:40 AM	-0.8	1:35 AM	7.6
13	Mon	9:18 AM	-0.6	2:09 AM	7.3
14	Tue	9:58 AM	-0.3	2:46 AM	7.0
15	Wed	10:40 AM	0.0	3:27 AM	6.6
16	Thu	11:25 AM	0.3	4:15 AM	6.1
17	Fri	12:13 PM	0.7	7:09 PM	6.0
18	Sat	1:04 PM	1.0	7:53 PM	6.3
FIXED		1:57 PM	1.3	8:35 PM	6.8
20	Mon	2:49 PM	1.5	9:15 PM	7.3
21	Tue	4:04 AM	0.7	9:55 PM	7.8
22	Wed	4:52 AM	-0.2	10:37 PM	8.3
23	Thu	5:38 AM	-1.0	11:20 PM	8.8
24	Fri	6:24 AM	-1.7	12:51 PM	6.6
25	Sat	7:11 AM	-2.2	12:05 AM	9.1
NEARSHORE		7:59 AM	-2.4	12:51 AM	9.2
27	Mon	8:47 AM	-2.3	1:40 AM	9.0
28	Tue	9:37 AM	-2.0	2:32 AM	8.6
29	Wed	10:29 AM	-1.4	3:27 AM	7.9
30	Thu	11:22 AM	-0.8	4:29 AM	7.1
31	Fri	12:17 PM	0.0	7:00 PM	7.2

JUNE		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Sat	1:13 PM	0.7	7:53 PM	7.4
FIXED		2:34 AM	1.3	8:42 PM	7.5
3	Mon	3:37 AM	0.7	9:27 PM	7.7
4	Tue	4:30 AM	0.2	10:09 PM	7.8
5	Wed	5:16 AM	-0.3	10:48 PM	7.9
6	Thu	5:57 AM	-0.6	11:24 PM	7.9
7	Fri	6:35 AM	-0.8	1:08 PM	6.0
8	Sat	7:10 AM	-0.9	12:00 AM	7.9
FIXED		7:45 AM	-0.9	12:34 AM	7.8
10	Mon	8:19 AM	-0.9	1:09 AM	7.6
11	Tue	8:54 AM	-0.7	1:45 AM	7.4
12	Wed	9:29 AM	-0.5	2:23 AM	7.1
13	Thu	10:05 AM	-0.2	3:03 AM	6.7
14	Fri	10:43 AM	0.2	5:32 PM	6.4
15	Sat	11:23 AM	0.7	6:12 PM	6.6
NEARSHORE		12:08 PM	1.2	6:55 PM	6.9
17	Mon	12:58 PM	1.7	7:39 PM	7.3
18	Tue	2:37 AM	1.2	8:26 PM	7.8
19	Wed	3:35 AM	0.4	9:14 PM	8.3
20	Thu	4:29 AM	-0.5	10:04 PM	8.7
21	Fri	5:19 AM	-1.3	10:54 PM	9.1
22	Sat	6:08 AM	-1.9	11:45 PM	9.4
NEARSHORE		6:56 AM	-2.3	1:28 PM	6.9
24	Mon	7:43 AM	-2.4	12:36 AM	9.4
25	Tue	8:30 AM	-2.2	1:27 AM	9.1
26	Wed	9:17 AM	-1.8	2:21 AM	8.6
27	Thu	10:03 AM	-1.1	3:16 AM	7.9
28	Fri	10:50 AM	-0.3	5:27 PM	7.6
29	Sat	11:39 AM	0.6	6:17 PM	7.6
Back-up		12:31 PM	1.4	7:08 PM	7.7

JULY		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Mon	2:05 AM	1.2	7:59 PM	7.7
2	Tue	3:10 AM	0.8	8:48 PM	7.7
3	Wed	4:07 AM	0.4	9:35 PM	7.7
4	Thu	4:56 AM	0.0	10:19 PM	7.8
5	Fri	5:38 AM	-0.3	11:00 PM	7.8
6	Sat	6:15 AM	-0.5	11:38 PM	7.9
NEARSHORE		6:50 AM	-0.6	1:26 PM	6.1
8	Mon	7:24 AM	-0.7	12:15 AM	7.9
9	Tue	7:56 AM	-0.7	12:52 AM	7.8
10	Wed	8:28 AM	-0.6	1:28 AM	7.6
11	Thu	8:59 AM	-0.3	2:05 AM	7.3
12	Fri	9:32 AM	0.0	2:45 AM	7.0
13	Sat	10:05 AM	0.5	4:41 PM	7.1
Back-up		10:42 AM	1.0	5:20 PM	7.3
15	Mon	11:24 AM	1.6	6:03 PM	7.5
16	Tue	12:56 AM	1.6	6:51 PM	7.8
17	Wed	2:04 AM	1.0	7:46 PM	8.1
18	Thu	3:09 AM	0.3	8:44 PM	8.5
19	Fri	4:08 AM	-0.5	9:42 PM	8.8
20	Sat	5:02 AM	-1.1	10:39 PM	9.2
NEARSHORE		5:52 AM	-1.6	11:33 PM	9.3
22	Mon	6:39 AM	-1.9	1:07 PM	7.2
23	Tue	7:24 AM	-1.9	12:26 AM	9.3
24	Wed	8:08 AM	-1.6	1:18 AM	9.0
25	Thu	8:51 AM	-1.1	2:10 AM	8.5
26	Fri	9:34 AM	-0.3	3:59 PM	8.0
27	Sat	10:17 AM	0.5	3:59 AM	7.0
Back-up		11:01 AM	1.4	5:29 PM	7.8
29	Mon	12:17 AM	1.3	6:19 PM	7.6
30	Tue	1:26 AM	1.2	5:29 PM	7.5
31	Wed	2:34 AM	1.0	8:08 PM	7.4

negative tides

possible commerical fishery open day

nearshore open

fixed dates

back-up dates

Central OR Summer (August-October) Sport All-Depth Fishery

- 47,995 –lbs. catch limit
- Opens 1st Friday in August (August 2, 2013)
- Open every other Friday and Saturday
- Weeks can be skipped to avoid adverse tides

Central OR Summer (August-October) Sport All-Depth Fishery

Inseason Allowable Changes

- Opens every week Friday and Saturday if 60,000+ pounds remain available after the first open weekend (includes remaining poundage in the fishery shoreward of 40-fathoms)
- Opens every week Friday and Saturday if 30,000+ pounds remain available after Labor Day weekend (includes remaining poundage in the fishery shoreward of 40-fathoms)
- Review after Labor Day to decide whether to add second fish to the daily bag limit

Central OR Summer (August-October) Sport All-Depth Fishery

Week	<u>Pounds Per Day</u>						
	2006	2007	2008	2009	2010	2011	2012
1	3,123	3,790	7,051	17,443	15,070	15,404	6,504
2		4,969	4,423				
3	1,834	1,206	2,846				14,923
4		9,563	2,054				
5	5,515	249	717				
6	4,260	17,149	38				
7	7,222		2,059				
8			15,971				
9			6,171				

= 2 fish daily bag limit
 = Labor Day weekend

Summer Halibut Period 2013

AUGUST		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Thu	3:36 AM	0.8	9:03 PM	7.4
2	Fri	4:28 AM	0.5	9:54 PM	7.5
3	Sat	5:12 AM	0.2	10:39 PM	7.6
4	Sun	5:50 AM	0.0	11:21 PM	7.8
5	Mon	6:24 AM	-0.2	11:59 PM	7.8
6	Tue	6:56 AM	-0.3	1:21 PM	6.6
7	Wed	7:26 AM	-0.2	12:37 AM	7.8
8	Thu	7:57 AM	-0.1	1:14 AM	7.7
9	Fri	8:27 AM	0.2	1:53 AM	7.4
10	Sat	8:58 AM	0.6	3:19 PM	7.5
11	Sun	9:32 AM	1.1	3:53 PM	7.6
12	Mon	11:19 PM	1.3	4:32 PM	7.7
13	Tue			5:18 PM	7.8
14	Wed	12:24 AM	1.0	6:13 PM	7.9
15	Thu	1:35 AM	0.7	7:17 PM	8.0
16	Fri	2:45 AM	0.2	8:25 PM	8.2
17	Sat	3:48 AM	-0.3	9:30 PM	8.5
18	Sun	4:43 AM	-0.7	10:31 PM	8.8
19	Mon	5:32 AM	-1.0	11:27 PM	8.9
20	Tue	6:18 AM	-1.1	12:38 PM	7.6
21	Wed	7:00 AM	-1.0	12:20 AM	8.8
22	Thu	7:42 AM	-0.6	1:11 AM	8.6
23	Fri	8:22 AM	0.0	2:35 PM	8.2
24	Sat	9:42 PM	0.6	3:14 PM	8.2
25	Sun	10:35 PM	0.8	3:55 PM	8.0
26	Mon	11:33 PM	1.0	4:37 PM	7.6
27	Tue	11:11 AM	2.9	5:26 PM	7.3
28	Wed	12:38 AM	1.2	6:22 PM	7.0
29	Thu	1:47 AM	1.2	7:26 PM	6.9
30	Fri	2:53 AM	1.1	8:30 PM	6.9
31	Sat	3:49 AM	0.9	9:28 PM	7.0

SEPT		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Sun	4:35 AM	0.7	10:18 PM	7.2
2	Mon	5:14 AM	0.5	11:02 PM	7.4
3	Tue	5:48 AM	0.4	11:42 PM	7.5
4	Wed	6:20 AM	0.3	12:35 PM	7.0
5	Thu	6:51 AM	0.4	12:22 AM	7.6
6	Fri	7:22 AM	0.6	1:31 PM	7.6
7	Sat	8:24 PM	0.7	2:01 PM	7.9
8	Sun	9:08 PM	0.5	2:34 PM	8.0
9	Mon	9:57 PM	0.4	3:10 PM	8.1
10	Tue	10:53 PM	0.4	3:53 PM	8.0
11	Wed	11:58 PM	0.4	4:44 PM	7.9
12	Thu	12:00 AM	0.4	5:46 PM	7.7
13	Fri	1:09 AM	0.4	6:59 PM	7.6
14	Sat	2:20 AM	0.2	8:15 PM	7.6
15	Sun	3:23 AM	0.0	9:25 PM	7.8
16	Mon	4:19 AM	-0.2	10:28 PM	8.0
17	Tue	5:08 AM	-0.2	11:24 PM	8.1
18	Wed	5:52 AM	-0.1	12:04 PM	8.0
19	Thu	7:00 PM	0.2	12:41 PM	8.3
20	Fri	7:45 PM	-0.1	1:18 PM	8.4
21	Sat	8:29 PM	-0.1	1:53 PM	8.4
22	Sun	9:13 PM	0.0	2:29 PM	8.2
23	Mon	10:00 PM	0.3	3:06 PM	7.9
24	Tue	10:50 PM	0.6	3:46 PM	7.4
25	Wed	11:47 PM	1.0	4:32 PM	7.0
26	Thu	11:37 AM	1.7	5:28 PM	6.6
27	Fri	12:52 AM	1.2	6:36 PM	6.3
28	Sat	1:57 AM	1.3	7:49 PM	6.2
29	Sun	2:56 AM	1.2	8:55 PM	6.4
30	Mon	3:45 AM	1.1	9:51 PM	6.6

OCT		Low Tide		High Tide	
Date	Day	Time	Feet	Time	Feet
1	Tue	4:26 AM	1.1	10:40 PM	6.8
2	Wed	5:03 AM	1.0	11:17 AM	7.1
3	Thu	6:06 PM	0.9	11:46 AM	7.5
4	Fri	6:44 PM	0.3	12:15 PM	7.9
5	Sat	7:23 PM	-0.2	12:46 PM	8.3
6	Sun	8:04 PM	-0.5	1:20 PM	8.5
7	Mon	8:50 PM	-0.6	1:56 PM	8.6
8	Tue	9:39 PM	-0.6	2:37 PM	8.5
9	Wed	10:34 PM	-0.4	3:25 PM	8.2
10	Thu	11:36 PM	-0.1	4:20 PM	7.9
11	Fri	11:37 AM	3.4	5:27 PM	7.4
12	Sat	12:43 AM	0.1	6:46 PM	7.1
13	Sun	1:51 AM	0.3	8:07 PM	6.9
14	Mon	2:53 AM	0.4	9:26 AM	7.2
15	Tue	3:49 AM	0.6	10:12 AM	7.6
16	Wed	5:19 PM	0.5	10:52 AM	8.1
17	Thu	6:04 PM	-0.1	11:30 AM	8.4
18	Fri	6:47 PM	-0.5	12:06 PM	8.5
19	Sat	7:27 PM	-0.6	12:40 PM	8.6
20	Sun	8:07 PM	-0.6	1:14 PM	8.4
21	Mon	8:47 PM	-0.4	1:49 PM	8.2
22	Tue	9:28 PM	-0.1	2:25 PM	7.8
23	Wed	10:13 PM	0.3	3:03 PM	7.4
24	Thu	11:01 PM	0.6	3:46 PM	6.9
25	Fri	11:55 PM	1.0	4:37 PM	6.4
26	Sat	12:21 PM	3.8	5:42 PM	6.0
27	Sun	12:53 AM	1.3	7:52 AM	6.1
28	Mon	1:49 AM	1.4	8:39 AM	6.4
29	Tue	2:41 AM	1.6	9:18 AM	6.8
30	Wed	4:22 PM	1.6	9:52 AM	7.2
31	Thu	5:03 PM	0.8	10:25 AM	7.7

negative tides

possible commerical fishery open day

nearshore open

End of Presentation

